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- 1 [A spreadsheet approach to programming and managing sensor netw](#)  
Alec Woo, Siddharth Seth, Tim Olson, Jie Liu, Feng Zhao  
April 2006 **IPSN '06: Proceedings of the 5th international conference on networks**  
**Publisher:** ACM  
Full text available: [Pdf](#) (991.41 KB) [Additional Information: full citation, abstra](#)  
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We present a spreadsheet approach to simplifying the process of manag sensor networks and visualizing, archiving and retrieving sensor data. A built to demonstrate the idea. ...

**Keywords:** SQL server, data streams, excel, networked sensors

- 2 [A framework for collaborative control of applications](#)  
James R. Miller, Serhan Yengulalp, Patrick L. Sterner  
March 2005 **SAC '05: Proceedings of the 2005 ACM symposium on Applie**  
**Publisher:** ACM [Request Permissions](#)  
Full text available: [Pdf](#) (439.48 KB) [Additional Information: full citation, abstra](#)  
**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 46, Downloa

Highly interactive applications are increasingly being used in decision su applications are increasingly being used in decision support systems. Fr collaborative environments in which ...

**Keywords:** collaborative techniques, remote application control


- 3 [Efficient XML usage within wireless sensor networks](#)  
Nils Hoeller, Christoph Reinke, Jana Neumann, Sven Groppe, Daniel Boeck  
November 2008 **WICON '08: Proceedings of the 4th Annual International C**  
**Publisher:** ICST (Institute for Computer Sciences, Social-Informatics and Telecomm  
Full text available: [Pdf](#) (1.23 MB) [Additional Information: full citation, abstra](#)  
**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 27, Downloa

Integrating wireless sensor networks in heterogeneous networks is a co standardized data exchange format that is supported in all participating

de facto standard data exchange ...


**Keywords:** XML, database management, programming language, wirel

4 [Code generation techniques for developing light-weight XML Web se](#)

 Robert van Engelen

March 2004 **SAC '04**: Proceedings of the 2004 ACM symposium on Applic

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (404.19 KB)

[Additional Information: full citation, abstra](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 91, Downlo

This paper presents specialized code generation techniques and runtime weight XML Web services for embedded devices. The optimizations are i development environment for C and C+ + ...


**Keywords:** Web Services, XML, embedded systems, networking

5 [The efficiency of XML as an intermediate data representation for wire](#)

Wayne Hansio, Kenneth MacGregor

October 2004 **SAI CSIT '04**: Proceedings of the 2004 annual research confe computer scientists and information technologists on IT resear

**Publisher:** South African Institute for Computer Scientists and Information Techno

Full text available:  Pdf (69.96 KB)


[Additional Information: full citation, abstra](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 33, Downloa

Along with the advances in networking technologies, access to data serv popularity but many issues have to be considered when writing applicat limited resources and wireless networks ...


**Keywords:** SOAP, XML, design, measurement, middleware, mobile com

6 [UML-based multiprocessor SoC design framework](#)

 Tero Kangas, Petri Kukkala, Heikki Orsila, Erno Salminen, Marko Hannikainen, Riihimäki, Kimmo Kuusilinn

May 2006 **Transactions on Embedded Computing Systems (TECS)**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (3.37 MB)

[Additional Information: full citation, abstra](#)


**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 215, Downl

This paper describes a complete design flow for multiprocessor systems phases from system-level modeling to FPGA prototyping. The design of enabled by raising the abstraction level ...

**Keywords:** UML 2.0, architecture exploration, design flow



7 [UML 2.0 Profile for Embedded System Design](#)

Petri Kukkala, Jouni Riihimäki, Marko Hannikainen, Timo D. Hamalainen, Ki

March 2005 **DATE '05: Proceedings of the conference on Design, Aut**  
**Volume 2**, Volume 2  
**Publisher:** IEEE Computer Society  
 Full text available:  Pdf (150.38 KB) **Additional Information:** [full citation](#), [abstract](#)  
**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 75, Download

Unified Modeling Language (UML) 2.0 is emerging in the area of embed  
 a new UML 2.0 profile - called TUT-Profile - that introduces a set of ster  
 application, platform, and mapping. The ...


#### 8 [Using XForms to simplify Web programming](#)

 Richard Cardone, Danny Soroker, Alpina Tiwari  
 May 2005 **WWW '05: Proceedings of the 14th international conference c**  
**Publisher:** ACM  
 Full text available:  Pdf (1.03 MB) **Additional Information:** [full citation](#), [abstract](#)  
**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 148, Downl

The difficulty of developing and deploying commercial web applications  
 they use increases and as the interactions between these technologies t  
 describes a way to avoid this increasing ...

**Keywords:** J2EE, MVC, Web application, XForms, XMLBeans, eclipse, v




#### 9 [iMobile EE: an enterprise mobile service platform](#)

Yih-Farrn Chen, Hualie Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam  
 Muthumanickam, Bin Wei  
 July 2003 **Wireless Networks**, Volume 9 Issue 4  
**Publisher:** Kluwer Academic Publishers  
 Full text available:  Pdf (2.90 MB) **Additional Information:** [full citation](#), [abstract](#)  
**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 137, Downl

iMobile<sup>1</sup> is an enterprise mobile service platform that allows resource-lin  
 with each other and to securely access corporate contents and services.  
 consists of devlets that ...

**Keywords:** content transcoding, middleware, mobile devices, mobile ei


#### 10 [Benchmark of middleware protocols for application and service inter](#)

 Pekka Pääkkönen, Daniel Pakkala  
 December 2008 **MUM '08: Proceedings of the 7th International Conference**  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (616.94 KB) **Additional Information:** [full citation](#), [abstract](#)  
**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 41, Downlo

A variety of protocols exist, which may be considered as messaging mid  
 service interactions in distributed and technologically heterogeneous en  
 include text-based Simple Object ...


**Keywords:** GCM, Middleware, SIP, SOAP, message-oriented, perform

**11 Intelligent pervasive middleware for context-based and localized tele**

 Chatschik Bisdikian, Isaac Boamah, Paul Castro, Archan Misra, Jim Rubas, Rasin, Henry Huang, Craig Simonds

September 2002 **WMC '02: Proceedings of the 2nd international workshop**

**Publisher:** ACM

Full text available:  Pdf (565.14 KB)


[Additional Information: full citation, abstra](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 73, Downloa

Telematics is arguably the next-wave in mobile computing: with most c  
embedded computing platforms, we shall witness the development of a  
applications with significant commercial potential. ...


**Keywords:** pervasive computing, telematics

**12 Assessment of mobile experience engine, the development toolkit fo**

 Amitava Biswas, Tom Donaldson, Jagmit Singh, Sara Diamond, David Gaut  
June 2006 **ACE '06: Proceedings of the 2006 ACM SIGCHI international c**

entertainment technology

**Publisher:** ACM

Full text available:  Pdf (225.04 KB)

[Additional Information: full citation, abstra](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 76, Downlo


Non-technical designers are using pervasive, context aware and mobile  
deliver unique user experiences and new values. Designer, artists and t  
and develop these new media applications. ...

**Keywords:** context-aware, design collaboration, games, new media, ra  
engineering

**13 Playing the trade-off game: Architecture exploration using Coffee**

 Praveen Raghavan, Murali Jayapala, Andy Lambrecht, Javed Absar, Franço  
May 2009 **Transactions on Design Automation of Electronic System**

**Publisher:** ACM 

Full text available:  Pdf (1.11 MB)

[Additional Information: full citation, abstra](#)

**Bibliometrics:** Downloads (6 Weeks): 41, Downloads (12 Months): 96, Downlo


Modern mobile devices need to be extremely energy efficient. Due to th  
energy-aware design exploration has become increasingly important. Ci  
support energy estimation, or require ...

**Keywords:** Energy, VLIW, architecture exploration, area, compiler-archit  
systems, loop transformations, power estimation, power-performance ti

**14 Cultural applications for mobile devices: Issues and requirements for  
platforms**



Daphne Economou, Damianos Gavallas, Michael Kenteris, George E. Tsekou  
 July 2008 **SI GMOBILE Mobile Computing and Communications Rev**  
**Publisher:** ACM

Full text available:  Pdf (1.10 MB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 41, Downloads (12 Months): 345, Downl


This paper explores requirements that authoring tools and development development of cultural applications tailored for deployment on Persona phones. To effectively determine such ...

# 15 [Model-based service discovery for future generation mobile systems](#)

 Kun Yang, Chris Todd, Shumao Ou

July 2006 **I WCMC '06: Proceedings of the 2006 international conference mobile computing**

**Publisher:** ACM 

Full text available:  Pdf (333.33 KB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 53, Downloa

The practical success of the future generation mobile systems such as 4 providing adaptive and cost-effective services. Service discovery is an e Based on the investigation ...


**Keywords:** model-driven architecture, service discovery, system design

# 16 [Models for universal usability](#)

 Fabio Paternò

November 2003 **I HM 2003: Proceedings of the 15th French-speaking confe on 15eme Conference Francophone sur l'Interaction Homm**

**Publisher:** ACM

Full text available:  Pdf (653.15 KB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 56, Downloa

This paper discusses how model-based approaches can support designe of challenges raised by universal usability, such as the possibility of obt. any device and usability evaluation ...


**Keyw ords:** abstract user interfaces, authoring environments, heteroge interfaces, remote evaluation, task Models

# 17 [System support for pervasive applications](#)

 Robert Grimm, Janet Davis, Eric Lamar, Adam Macbeth, Steven Swanson, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **Transactions on Computer Systems ( TOCS )**, Volume 22 I

**Publisher:** ACM 

Full text available:  Pdf (1.82 MB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 57, Downloads (12 Months): 356, Downl


Pervasive computing provides an attractive vision for the future of comp

available everywhere. Mobile and stationary devices will dynamically coordinate people in accomplishing their tasks. ...

**Keywords:** Asynchronous events, checkpointing, discovery, logic/operational, pervasive computing, structured I/O, tuples, ubiquitous computing

# 18 Simulation of large scale networks III: ROSS.Net: optimistic parallel simulation of internet models

David Bauer, Garrett Yau, Christopher D. Carothers, Murat Yuksek, Shivkumar  
December 2003 **WSC '03:** Proceedings of the 35th conference on Winter simulation  
**Publisher:** Winter Simulation Conference

Full text available:  Pdf (1.34 MB)

Additional Information: full citation, abstract


**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 27, Downloads

ROSS.Net brings together the four major areas of networking research: measurement and protocol design. ROSS.Net is a tool for computing large components such as a discrete-event simulation ...

# 19 A distributed embedded web based automated testbed for wireless sensor networks

 Lars Möllendorf, David Rahusen, Daniel Schauenberg, Axel Sikora  
June 2009 **1WCMC '09:** Proceedings of the 2009 International Conference on Mobile Computing: Connecting the World Wirelessly

**Publisher:** ACM 

Full text available:  Pdf (2.79 MB)


Additional Information: full citation, abstract

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 12, Downloads

Tests of distributed wireless networks pose various challenges with regard to measurement problems. In this contribution a novel testbed architecture is presented, for distributed wireless networks. ...

**Keywords:** AJAX, JavaScript library, embedded web server, energy-aware, wireless sensor network

# 20 Middleware for distributed services and mobile applications

 Aitor Uribe, Jorge Parra, J. P. Uribe, Maider Zamalloa, Kepa Makibar  
May 2006 **InterSense '06:** Proceedings of the first international conference on sensor networks

**Publisher:** ACM 

Full text available:  Pdf (120.36 KB)

Additional Information: full citation, abstract

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 44, Downloads

In this paper, we describe the middleware that has evolved from our attention to user-aware services in ubiquitous environments. User mobility can cause user-preferred applications are not installed ...

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